

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hirofumi HAMADA *et al.*

Title: METHOD OF DIFFERENTIATING  
MESENCHYMAL STEM CELL INTO LIVER  
CELL AND ARTIFICIAL HUMAN LIVER CELL

Appl. No.: Unassigned Filing Date: 02/24/06

Examiner: Unassigned Art Unit: Unassigned

**PETITION TO ACCEPT COLOR PHOTOGRAPHS UNDER 37 CFR 1.84**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 CFR 1.84(a)(2), Applicants petition for the acceptance of Figs. 3-6 and 9 (color photographs) to be entered in the above-captioned application.

In support thereof, Applicants submit:

- I) A fee in the amount of \$130.00 as is set forth under 37 CFR 1.17(h);
- II) Three (3) sets each of Figs. 3-6 and 9 (in color); and
- III) An amendment to the specification indicating that the application contains color photos.

**In the Specification:**

On page 1, directly beneath the title, please insert the following

--The application contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.--

**REMARKS**

Figure 3 and 4 depicts the progression of antibody staining after transplantation of human mesenchymal stem cells on day 14 and then day 28, respectively.

Fig. 5 shows the expression of human albumin in rat livers into which human mesenchymal stem cells have been transplanted.

Fig. 6 illustrates the expression of human  $\alpha$  fetoprotein in rat livers into which human mesenchymal stem cells have been transplanted.

Finally, Fig. 9 shows hepatic differentiation of human mesenchymal hepatocytes (MSCs) into which TERT has been introduced (hepatic differentiation of TERT-introduced MSCs).

The distinct characteristics and results of each of these figures are best depicted in color as it enhances the visual contrast, which otherwise might be indistinct.

Respectfully submitted,

Date 24 February 2006

By S. A. Bent

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